



Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Hardener MP Advanced

Print date : 17.10.2008

Product code : 125157-X

Page 1 of 5

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Hardener MP Advanced

Company/undertaking identification

Company name : R&G Faserverbundwerkstoffe GmbH
Composite Technology
Street : Im Meißel 7 - 13
Place : D-71111 Waldenbuch
Post-office box : 1145
D-71107 Waldenbuch
Telephone : +49-7157-530460 Telefax : +49-7157-530470
e-mail : info@r-g.de
Internet : www.r-g.de
Inquiry office : Management
Emergency telephone : poison information centre

2. Hazards identification

Classification

Indications of danger : Corrosive, Dangerous for the environment
R-phrases :
Possible risk of impaired fertility.
Harmful in contact with skin and if swallowed.
Causes burns.
May cause sensitization by skin contact.
Harmful: danger of serious damage to health by prolonged exposure if swallowed.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

Chemical characterization (preparation)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
270-877-4	68479-98-1	diethylmethylbenzenediamine	65 - 80 %	Xn, Xi, N R21/22-48/22-36-50-53
211-776-7	694-83-7	1,2-Diamino-cyclohexan	10 - 20 %	C R20-34-43
201-245-8	80-05-7	4,4'-isopropylidenediphenol	1 - 10 %	Repr. Cat. 3, Xi R62-37-41-43
203-180-0	104-15-4	p-toluenesulphonic acid (containing a maximum of 5 % H2SO4)	1 - 10 %	Xi R36/37/38

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

After inhalation

fresh air or oxygen supply Immediately get medical attention.

After contact with skin

After contact with skin, wash immediately with soap and plenty of water.

After contact with eyes

If the product comes into contact with the eyes, immediately rinse the open eyes with copious amounts of water for at least ten minutes. Afterwards consult an eye specialist.



Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Hardener MP Advanced

Print date : 17.10.2008

Product code : 125157-X

Page 2 of 5

After ingestion

Do not induce vomiting. Consult physician.

5. Fire-fighting measures

Suitable extinguishing media

Atomized water. Carbon dioxide (CO₂). Foam.

Extinguishing media which must not be used for safety reasons

High power water jet.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Nitrogen oxides (NO_x).

Special protective equipment for fire-fighters

Wear breathing apparatus without recirculating air and suitable protective clothing.

6. Accidental release measures

Environmental precautions

Do not empty into drains or the aquatic environment. Do not allow to enter the soil or subsoil.

Methods for cleaning up/taking up

Soak up inert absorbent and dispose as waste requiring special observation.

7. Handling and storage

Handling

Advice on safe handling

Handle with caution - prevent shock, rubbing and blows.

Storage

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs. Keep receptacles tightly sealed. Do not store at temperatures over: 40 °C Do not store at temperatures under: 2 °C

Storageclass (VCI) : 8

8. Exposure controls/personal protection

Exposure limit values

Exposure controls

Protective and hygiene measures

Avoid contact with skin, eye and clothing.

Respiratory protection

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.

Hand protection

Butyl rubber. für Langzeitanwendung. NBR (Nitrile rubber). bei Kurzzeitanwendungen

Eye protection

Wear goggles.

Skin protection

Wear a chemical resistant suit. Chemical resistant safety shoes.



Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Hardener MP Advanced

Print date : 17.10.2008

Product code : 125157-X

Page 3 of 5

9. Physical and chemical properties

General information

Physical state : liquid
Colour : yellow

Important health, safety and environmental information

Test method

Changes in the physical state

Flash point : 150 °C DIN 51758
Vapour pressure : < 10 hPa
(at 25 °C)
Density (at 20 °C) : 1 g/cm³
Water solubility : teilweise löslich
(at 20 °C)
Solubility in other solvents : nicht mischbar bei 20 °C
Viscosity / dynamic : 250 - 350 mPa·s
(at 25 °C)

Other information

Thermische Zersetzung > 200 °C

10. Stability and reactivity

Materials to avoid

strong acid and alkaline Oxidizing agents, strong.

11. Toxicological information

Acute toxicity

LD50: rat < 2000 mg/kg

Corrosive and irritant effects

corrosive. rabbit

Sensitising effects

Sensitization Guinea-pig.

12. Ecological information

Persistence and degradability

not easily bio-degradable (according to OECD-criteria).

Further information

Do not let the product enter the groundwater, open water, or the sewerage system.

13. Disposal considerations

Waste disposal number of waste from residues/unused products

070204 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other organic solvents, washing liquids and mother liquors
Classified as hazardous waste.

Waste disposal number of used product

070204 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other organic solvents, washing liquids and mother liquors
Classified as hazardous waste.



Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Hardener MP Advanced

Print date : 17.10.2008

Product code : 125157-X

Page 4 of 5

14. Transport information

Land transport (ADR/RID)

UN number : 3267
ADR/RID class : 8
Classification code : C7
Warning plate
Hazard-no. : 80
Hazard label : 8
ADR/RID packing group : III

Description of the goods

ÄTZENDER BASISCHER ORGANISCHER FLÜSSIGER STOFF
enthält 1,2-DIAMINO CYCLOHEXANE

Marine transport

UN number : 3267
Hazard label : 8
IMDG packing group : III
EmS : F-A-S-B

Description of the goods

ÄTZENDE FLÜSSIGKEIT, BASISCH, ORGANISCH, N.A.G.

Other applicable information (marine transport)

enthält 1,2-DIAMINO CYCLOHEXANE

Air transport

UN/ID number : 3267
Hazard label : 8
ICAO packing group : III
IATA-packing instructions - Passenger : 60 I
IATA-max. quantity - Passenger : 5 l
IATA-packing instructions - Cargo : 820
IATA-max. quantity - Cargo : 818

Description of the goods

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

Other applicable information (air transport)

enthält 1,2-DIAMINO CYCLOHEXANE

15. Regulatory information

Labelling

Danger symbols : C - Corrosive; N - Dangerous for the environment

R phrases

62 Possible risk of impaired fertility.
21/22 Harmful in contact with skin and if swallowed.
34 Causes burns.
43 May cause sensitization by skin contact.
48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where



Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Hardener MP Advanced

Print date : 17.10.2008

Product code : 125157-X

Page 5 of 5

- possible).
61 Avoid release to the environment. Refer to special instructions / Safety data sheets.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

National regulatory information

Water contaminating class (D) : 2 - water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- 20 Harmful by inhalation.
21/22 Harmful in contact with skin and if swallowed.
34 Causes burns.
36 Irritating to eyes.
36/37/38 Irritating to eyes, respiratory system and skin.
37 Irritating to respiratory system.
41 Risk of serious damage to eyes.
43 May cause sensitization by skin contact.
48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
50 Very toxic to aquatic organisms.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53 May cause long-term adverse effects in the aquatic environment.
62 Possible risk of impaired fertility.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)